User Guide

ViewStat

Color Communicating Thermostat

ENV-VST-C

ENERGY STAR

HVAC Controls

Last Updated: 1/12/2009

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Setup and Configuration

The ViewStat Color Communicating Thermostat provides the current temperature, controls and displays humidity, and displays the current outdoor temperature. The ViewStat Color Communicating Thermostat displays this information on a 3.5" (8.89 cm) color display. In addition, the ViewStat Color Communicating Thermostat provides the current day's weather forecast along with a five-day forecast, driven from AMX's i!-Weather application. This chapter provides information about the different screens on the ViewStat Color Communicating Thermostat, how to navigate through them, and how to establish settings on each screen.

Front Panel Components

This section describes the front panel components and gives instructions for operating the ViewStat Color Communicating Thermostat (see FIG. 1).

Display

The ViewStat Color Communicating Thermostat provides the current temperature condition including indoor and outdoor temperature, the current weather conditions, and the Five Day Forecast. The thermostat displays this information on a 3.5" (8.89 cm) color QVGA (320 x 240) Thin Film Transistor Liquid Crystal Display (TFT-LCD).

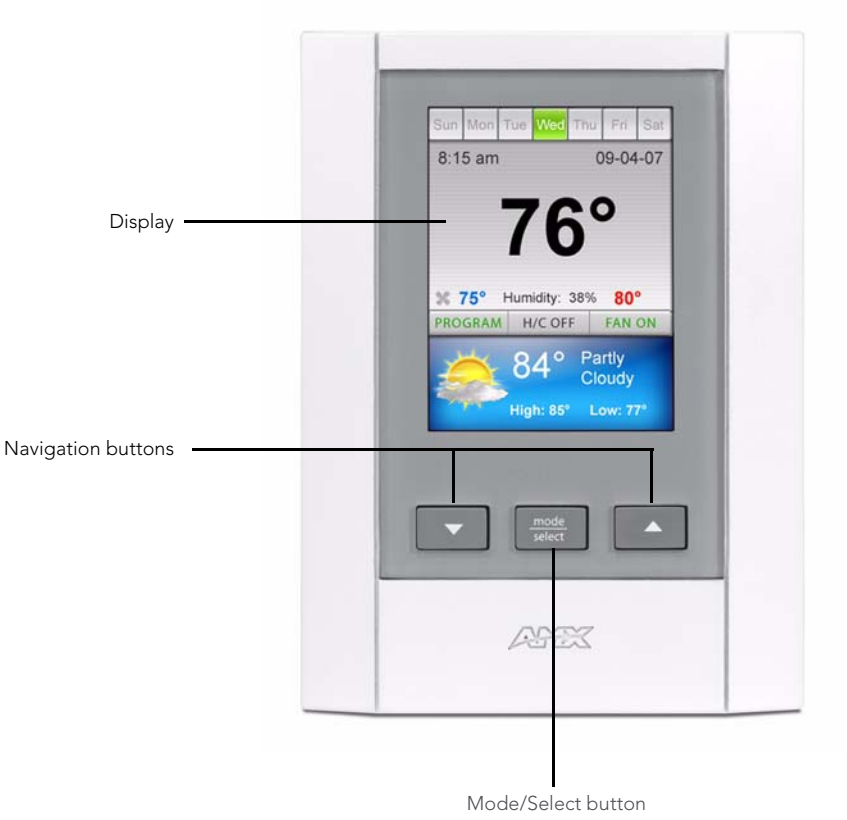

FIG. 1 Front panel components

Navigation Buttons

The ViewStat Color Communicating Thermostat is equipped with three tactile buttons that support the thermostat's main functions and its backlight options. When you press any button, the display backlight lights up for 30 seconds. The Navigation buttons are used to change various parameters on the thermostat, including the temperature setpoints. These buttons are located beneath the faceplate.

Mode/Select Button

The Mode/Select button is used to navigate through the various thermostat screens, including the weather screens. This button is located beneath the faceplate.

Navigating the ViewStat Color Communicating Thermostat

This section describes the various screens on the thermostat, and the options on each screen.

Main Screen

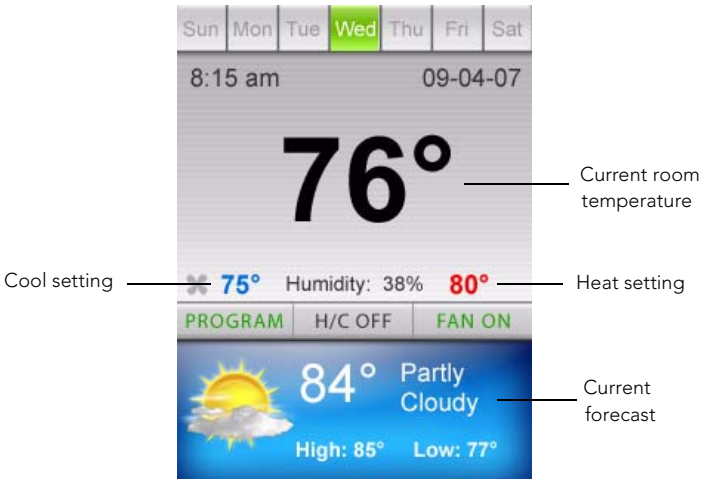

FIG. 2 Main screen

The Main screen (FIG. 2) of the ViewStat Color Communicating Thermostat displays the current date, time, and indoor temperature. You can also view the current heating and cooling setpoints and the humidity. The current day's forecasted high and low temperatures and weather condition appear on the bottom of the screen. The ViewStat Color Communicating Thermostat receives this information from AMX's i!-Weather service. This screen is view-only.

Pressing Mode/Select takes you to the Current Weather screen. Pressing either of the navigation buttons takes you to the Hold Mode screen.

NOTE

The thermostat allows the HVAC system to recover gradually from an energy-saving setpoint temperature to a comfort setpoint temperature. This feature provides comfort while minimizing the on-time of the HVAC system during the recovery period.
For example, if you set your Wake time and temperature to 72 degrees F at 6:00am, at 4:00am, the HVAC system begins to gradually adjust the temperature toward 72 degrees. By slowly and gradually adjusting the temperature, the thermostat saves energy, as opposed to continuously running the HVAC system beginning at 6:00am until the system reaches the temperature setpoint. In the hours before a programmed period of the day begins, you may see a slight difference in expected room temperature. The difference is due to the energy-saving gradual temperature adjustment.

Current Weather Screen

FIG. 3 Current Weather screen

The Current Weather screen (FIG. 3) displays a detailed description of the day's weather forecast. This screen includes the outdoor temperature, the expected high and low temperatures for the current day, the wind chill/heat index temperature, the wind direction and speed, the percent humidity, the dew point, and barometric pressure. The ViewStat Color Communicating Thermostat receives this information from AMX's i!-Weather service. This screen is view-only. You can disable this screen so it does not appear when you navigate through the thermostat's screens. See the *Disabling the Forecast Screens* section on page 32 for more information.

Pressing Mode/Select takes you to the 5-Day Forecast screen. This screen returns to the main screen after a 20-second timeout.

5-Day Forecast Screen

FIG. 4 5-Day Forecast screen

The 5-Day Forecast screen (FIG. 4) displays the high and low temperatures and the expected weather condition for each of the next five days. The ViewStat Color Communicating Thermostat receives this information from AMX's i!-Weather service. This screen is view-only. You can disable this screen so it does not appear when you navigate through the thermostat's screens. See the *Disabling the Forecast Screens* section on page 32 for more information.

Pressing Mode/Select takes you to the Thermostat Mode screen. This screen returns to the main screen after a 20-second timeout.

Thermostat Mode Screen

FIG. 5 Thermostat Mode screen

The Thermostat Mode screen (FIG. 5) displays a menu providing a list that enables you to navigate to other screens to create settings for different times and occasions. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. This screen returns to the main screen after a 20-second timeout. The following table lists the options on the Thermostat Mode screen:

Thermostat Mode Screen Options	
Hold Mode	Opens the Hold Mode screen.
Program Mode	Opens the Program Mode Setting screen.
Vacation/Party Mode	Opens the Vacation Mode screen.
Settings	Opens the Settings screen.
Exit	Returns to the Main screen.

Hold Mode Screen

FIG. 6 Hold Mode screen

The Hold Mode screen (FIG. 6) displays options that enable you to set the heating and cooling setpoints for your HVAC system. The thermostat uses the settings you establish on this screen when you enable Hold mode on the Program Mode Setting and Vacation/Party Settings screens. Entering this screen automatically puts the unit into Hold mode. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

Pressing Mode/Select again highlights the next available option. This screen returns to the main screen after a 10-second timeout. You can also return to the Main screen by holding Mode/Select for three seconds. The following table lists the options on the Hold Mode screen:

Hold Mode Screen Options	
Heat Setpoint	Establishes the level of desired heat for the HVAC system.
Cool Setpoint	Establishes the level of desired coolness for the HVAC system.

Program Mode Setting Screen

FIG. 7 Program Mode Setting screen

The Program Mode Setting screen (FIG. 7) enables you to set heating, cooling, humidify, and dehumidify setpoints for various times of the day for each day of the week. Entering this screen automatically puts the unit into Program mode.You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

The thermostat allows the HVAC system to recover gradually from an energy-saving setpoint temperature to a comfort setpoint temperature. This feature provides comfort while minimizing the on-time of the system during the recovery period. The default Program mode settings are compliant with EnergyStar recommendations.

Pressing Mode/Select again highlights the next available option. The following table lists the options on the Program Mode Setting screen:

Program Mode Setting Screen Options	
Period	Separate times of the day when you can create heating, cooling, humidify, and dehumidify setpoints. The available times are Wake, Leave, Return, and Sleep.
Heat	The level of desired heat for the HVAC system.
Cool	The level of desired coolness for the HVAC system.
Time	The time of day when you want the settings to take effect.
Humidify	The desired humidify level for the HVAC system.
Dehumidify	The desired dehumidify level for the HVAC system.
Enabled/Disabled	The Hold temperature overrides the heating and cooling settings. If you select Disabled, the thermostat uses the heating and cooling settings you establish on the Hold Mode screen.
Next Day	Select the next day of the week.
Copy Prev	Copy the settings from the previous day of the week to the current day.
Exit	Exit the Program Mode Setting screen and return to the Thermostat Mode screen.

Vacation/Party Settings Screen

FIG. 8 Vacation/Party Settings screen

The Vacation/Party Settings screen (FIG. 8) enables you to set heating, cooling, humidify, and dehumidify setpoints for a specific duration of time, in days or hours. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

Pressing Mode/Select again highlights the next available option. The following table lists the options on the Vacation/Party Settings screen:

Vacation/Party Settings Screen Options	
Days	The number of days you want the settings to last.
Hours	The number of hours you want the settings to last. The thermostat uses the number of hours you set after the days you set expires.
Heat	Establishes the level of desired heat for the HVAC system.
Cool	Establishes the level of desired coolness for the HVAC system.
Humid	Establishes the level of humidity.
Dehumid	Establishes the level of humidity.
Enabled/Disabled	The Hold temperature overrides the heating and cooling settings. If you select Disabled, the thermostat uses the heating and cooling settings you establish on the Hold Mode screen.
Exit	Exit the Vacation Mode screen and return to the Thermostat Mode screen

Settings Screen

FIG. 9 Settings screen

The Settings screen (FIG. 9) enables you to establish settings for the fan and filter, and enables you to switch between heating and cooling. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

Pressing Mode/Select again highlights the next available option. The following table lists the options on the Settings screen:

Settings Screen Options	
Fan State	Toggles the fan state between On and Auto.
Fan Speed	Toggles the fan speed between High, Medium, and Low.
Filter	Enables you to indicate how often you want the thermostat to remind you that the filter for your HVAC system needs to be changed. You can choose from 30, 60, 90, and 120 days. When you enable the Filter Change Reminder feature, the thermostat monitors the operation time of the HVAC system and fan. When the operation time reaches the selected number of days, a filter change reminder icon displays to alert you to change the filter. The operation time is based on the fan's run time, so 30 days equals 30 days worth of fan 'on' time.
Heat or Cool Selection	Toggles the heat or cool selection between Heat and A/C.
Emergency Heat	Toggles the emergency heat setting between On and Off. This option is only available if your thermostat is configured to operate with a heat pump.
Advanced Setup	Opens the Security Code Input screen. See *Security Code Screen* section on page 12.
Exit	Saves all settings and returns to the main screen.

Security Code Screen

FIG. 10 Security Code screen

The Security Code screen (FIG. 10) enables you to enter the security code for the thermostat. Without entering a security code, the user cannot have access to advanced setup features or make changes to the user preferences. The default security code is ***1988***. Pressing the Up/Down arrow buttons increases or decreases the numeric value in the highlighted box. Pressing the Mode/Select button highlights the next box in the sequence or highlights Enter if pressed while the fourth box is highlighted. Use Up/Down arrow buttons to move between Enter and Cancel. Press the Mode/Select button while Enter is highlighted to open the User Preferences screen. Press the Mode/Select button while Cancel is highlighted to return to the Settings screen. To change the security code, see the *Changing the Security Code* section on page 28.

User Preferences Screen

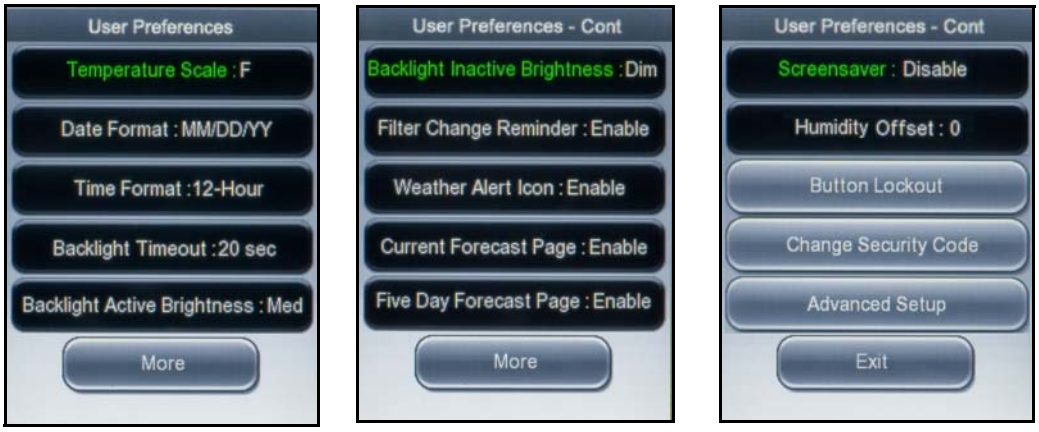

FIG. 11 User Preferences screens

The User Preferences screens (FIG. 11) enable you to establish personal preference settings for the thermostat including temperature scale, date and time format, and brightness level. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

Pressing Mode/Select again highlights the next available option. The following table lists the options on the User Preferences screen:

User Preferences Screen Options	
Temperature Scale	Toggles between Celsius (C) and Fahrenheit (F).
Date Format	Toggles between a date format of MMDDYY, DDMMYY, and YYDDMM.
Time Format	Toggles between a 12- or 24-hour time format.
Backlight Timeout	Establishes the amount of inactive time before the backlight on the unit automatically turns off. You can set a value between 10 seconds and 5 minutes in 10 second increments. The default value is 30 seconds.
Backlight Active Brightness	Establishes the level of brightness for the backlight when the unit is active. You can choose Low, Medium, or High.
Backlight Inactive Brightness	Establishes the level of brightness for the backlight when the unit is inactive. You can choose Dim or Off.
Filter Change Reminder	Enables the reminder to periodically change the air filter. When you enable this feature, the thermostat monitors the operation time of the HVAC system and fan. When the operation time reaches the number of days you set on the Settings screen, the filter change reminder icon displays alerting you to change the filter.
Weather Alert Icon	Enables a weather alert when the thermostat receives a weather alert channel activation from the NI Master.
Current Weather Page	Enables you to turn off the current weather screen on the thermostat. If you are not using the i!-Weather application to report the weather forecast to the thermostat, you might want to disable the current weather screen so it does not appear when you navigate through the thermostat's screens. If you disable the forecast screens, only the indoor temperature displays on the Main screen.
Five Day Forecast Page	Enables you to turn off the 5-Day Forecast screen on the thermostat. If you are not using the i!-Weather application to report the weather forecast to the thermostat, you might want to disable the 5-Day Forecast screen so it does not appear when you navigate through the thermostat's screens. If you disable the forecast screens, only the indoor temperature displays on the Main screen.
Screensaver	Enables you to turn on a screen saver for the thermostat. The screen saver activates after 30 seconds without any user input, and displays the current room temperature moving around the screen on a black background.

User Preferences Screen Options (Cont.)	
Humidity Offset	The humidity offset enables you to customize the humidity shown on the display. You can set the humidity offset in 1° increments. The default humidity offset is 0.
Button Lockout	Enables you to allow certain buttons on the thermostat to be completely or partially disabled. Opens the Button Lockout screen. See *Button Lockout Screen* section on page 14 for more information.
Config Security Code	Enables you to change the security code for the thermostat. Opens the Config Security Code screen.
Advanced Setup	Opens the Advanced Setup screen.
Exit	Returns you to the Settings screen.

Button Lockout Screen

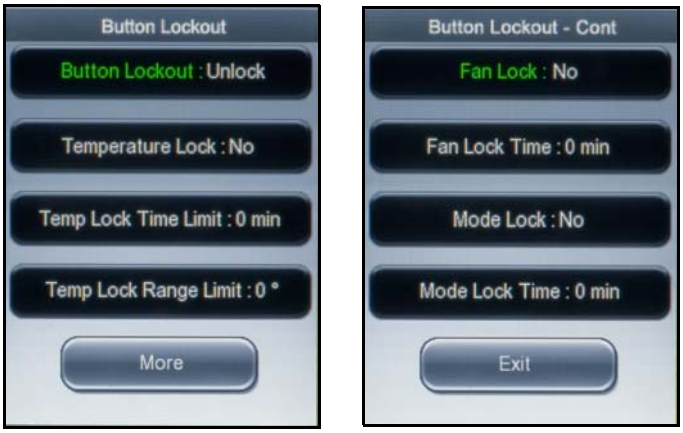
Button Lockout
Button Lockout : Unlock
Temperature Lock : No
Temp Lock Time Limit : 0 min
Temp Lock Range Limit : 0 °
More
Button Lockout - Cont
Fan Lock : No
Fan Lock Time : 0 min
Mode Lock : No
Mode Lock Time : 0 min
Exit

FIG. 12 Button Lockout screens

The Button Lockout screens (FIG. 12) enable you to set locks on certain features of the thermostat so the features cannot be changed. When you lock a feature, you also set the amount of time you want the feature to be locked. You cannot change the features you lock using the buttons on the thermostat, however, you can still change the locked features through AxLink. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

Pressing Mode/Select again highlights the next available option. The following table lists the options on the Button Lockout screen:

Button Lockout Screen Options	
Button Lockout	Enables you to lock or unlock the buttons on the thermostat so they cannot change certain settings. You must set this option to Lock for any lockout setting to apply.
Temperature Lock	Enables you to lock the temperature settings so they cannot be changed.
Temp Lock Time Limit	Enables you to enter an amount of time in minutes in which you want the temperature lock to last. You can set the time limit to any value between 0 and 60 minutes.
Temp Lock Range Limit	Enables you to lock the temperature to a range so temperature range changes vary by only a set number of degrees. For example, if you set the limit to 3, you can only change the temperature by + or -3 degrees from its current setting. You can set the range to any value between 0 and 10 degrees.
Fan Lock	Enables you to lock the current fan setting so you cannot change it.
Fan Lock Time	Enables you to enter an amount of time in minutes in which you want the fan lock to last. You can set the time limit to any value between 0 and 60 minutes.

Button Lockout Screen Options (Cont.)	
Mode Lock	Enables you to lock the current mode setting so you cannot change it.
Mode Lock Time	Enables you to enter an amount of time in minutes in which you want the mode lock to last. You can set the time limit to any value between 0 and 60 minutes.
Exit	Returns you to the Main screen.

Change Security Code Screen

FIG. 13 Change Security Code screen

The Change Security Code screen (FIG. 13) enables you to change the security code for the thermostat. Without entering a security code, the user cannot have access to advanced setup features or make changes to the user preferences. The default security code is ***1988***. Pressing the Up/Down arrow buttons increases or decreases the numeric value in the highlighted box. Pressing the Mode/Select button highlights the next box in the sequence or highlights Enter if pressed while the fourth box is highlighted. Use Up/Down arrow buttons to move between Enter and Cancel. Press the Mode/Select button while Enter is highlighted to accept the new security code and open the User Preferences screen. Press the Mode/Select button while Cancel is highlighted to return to the User Preferences screen.

Advanced Setup Screen

FIG. 14 Advanced Setup screens

The Advanced Setup screens (FIG. 14) enable you to indicate the type of HVAC system you are using, activate temperature sensors, and set the date for the thermostat. The thermostat automatically computes the day of the week based on the date you input. These settings should be set when the thermostat is initially installed, and should not need to be updated with regular use. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

Pressing Mode/Select again highlights the next available option. The following table lists the options on the Vacation/Party Settings screen:

Advanced Setup Screen Options	
HVAC System	Enables you to set the type of HVAC you are using. The thermostat defaults to One Stg Furnace. For a list of HVAC System types, refer to the *Wiring the Thermostat* section on page 5 of the ViewStat Color Communicating Thermostat Operation/Reference Guide.
Fossil Fuel	Enables you to indicate the type of fossil fuel your HVAC system uses. You can choose from Electric or Gas.
External Temp Sensor	Enables you to indicate whether the external sensor is located indoors or outdoors. If you activate both this sensor and the Onboard Temperature sensor, the thermostat reports an average temperature based on the temperature readings from each sensor. You can also turn off the external sensor with this option.
Internal Temp Sensor	Enables you to indicate whether you want to turn on or turn off the onboard temperature sensor. If you activate both this sensor and the External Temperature sensor, the thermostat reports an average temperature based on the temperature readings from each sensor.
Humidity Sensor	Enables you to indicate whether you want to turn on or turn off the onboard humidity sensor.
Month	Enables you to set the current month. You can enter a value between 1-12.
Day	Enables you to set the current day. You can enter a value between 1-31.
Year	Enables you to set the current year. The default value is 2008.
Hour	Enables you to set the current hour. You can enter a value between 0-23.
Minute	Enables you to set the current minute. You can enter a value between 0-59.
AxLink Setup	Enables you to access the AxLink Setup screen. See the *AxLink Communications Screen* section on page 18 for more information.
Thermostat Setup	Enables you to access the Thermostat Setup screen. See the *Thermostat Setup Screen* section on page 19 for more information.
Exit	Returns you to the User Preferences screen.

AxLink Communications Screen

FIG. 15 AxLink Communications screen

The AxLink Communications screen (FIG. 15) enables you to set the address of the AxLink device with which you want the thermostat to communicate. The AxLink address distinguishes a device on the AxLink bus from all other devices. Valid AxLink addresses are 1-255. Address 0 belongs to the Master. The default setting for the ViewStat Color Communicating Thermostat is 1.

Pressing the Up/Down arrow buttons increases or decreases the numeric value in the highlighted box. Pressing the Mode/Select button highlights the next box in the sequence or highlights Enter if pressed while the third box is highlighted. Use Up/Down arrow buttons to move between Enter and Cancel. Press the Mode/Select button while Enter is highlighted to accept the new AxLink address and return to the Advanced Setup screen.

Thermostat Setup Screen

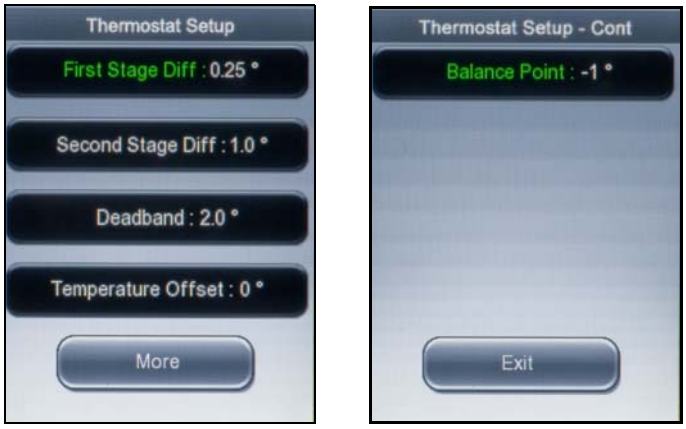

FIG. 16 Thermostat Setup screens

The Thermostat Setup screens (FIG. 16) enable you to set temperature differentials between the heating and cooling setpoints. On this screen, you can also set the balance point if you have a single or dual stage heat pump system. You can use the navigation buttons to move through the highlighted options. The Mode/Select button selects the highlighted item. You can then use the navigation buttons to change the setting of the highlighted option.

Pressing Mode/Select again highlights the next available option. The following table lists the options on the Thermostat Setup screen:

Thermostat Setup Screen Options	
First Stage Diff	Enables you to set the 1st stage temperature differential. Differentials set the tightness of the temperature control to eliminate large temperature swings and prevent the HVAC system from operating too often. Normally the second stage of heat is for auxiliary or emergency heat. Energy Star recommends that a programmable thermostat be capable of maintaining room temperature swings within ± 2°F of the set point temperature. You can choose from 0.5°F, 1.0°F, and 2.0°F (or 0.25°C, 0.5°C, 1.0°C). The default value is 0.5°F (0.25°C).
Second Stage Diff	Enables you to set the 2nd stage temperature differential. You can choose from 1.0°F, 2.0°F, 3.0°F, 4.0°F, 5.0°F, and 6.0°F (or 0.5°C, 1.0°C, 1.5°C, 2.0°C, 2.5°C, 3.0°C). The default value is 2.0°F (1.0°C).
Deadband	The Deadband is the temperature difference between the heating and cooling setpoints. The Deadband configuration enforces a minimum separation between the two setpoints which determine when auto changeover between HVAC heating and cooling mode will occur. You can choose from 2.0°F, 3.0°F, 4.0°F, and 5.0°F. The default Deadband is 4.0°F.
Temperature Offset	The temperature offset enables you to customize the temperature shown on the display. You can set the temperature offset in 1° increments. The default temperature offset is 0.
Balance Point	Balance Point configuration enables you to adjust a low or high balance point to limit auxiliary heat pump operation according to the current outdoor temperature. The compressor terminals will not be energized when the outdoor temperature is below the balance point. This does not affect Emergency Heat operation. This option is only valid if the thermostat has been configured to operate as a heat pump. The default Balance Point is 30°F. This option is only available if your thermostat is configured to operate as a heat pump.
Exit	Returns you to the Advanced Setup screen.

Operating the Thermostat

This chapter provides step-by-step procedures for changing the settings and activating specific options on the thermostat.

Viewing the Daily Forecast

The Main screen of the ViewStat Color Communicating Thermostat displays the current date, time, and indoor temperature. You can also view the current heating and cooling setpoints you have set and the humidity percentage. The current day's forecasted high and low temperatures and weather condition appears on the bottom of the screen.

The Current Weather screen displays a detailed description of the day's weather forecast. This screen includes the outdoor temperature, the expected high and low temperatures for the current day, the wind chill/heat index temperature, the wind direction and speed, the percent humidity, the dew point, and barometric pressure.

The 5-Day Forecast screen displays the high and low temperatures and the expected weather condition for each of the next five days. The ViewStat Color Communicating Thermostat receives this information from AMX's i!-Weather service. These screens are view-only.

Perform the following steps to view the daily forecast:

1. From the Main screen, press Mode/Select to access the Current Weather screen (see FIG. 17).

FIG. 17 Current Weather screen

2. Press Mode/Select to access the 5-Day Forecast screen (see FIG. 18). This screen returns to the main screen after a 20-second timeout.

FIG. 18 5-Day Forecast screen

You can disable the forecast screens so they do not appear when you navigate through the thermostat's screens. See the *Disabling the Forecast Screens* section on page 32 for more information.

Setting the Temperature

You can create the heating and cooling setpoints on the Hold Mode screen. Setting the temperature on this screen creates a constant heating and cooling setpoint that runs as long as you have these setpoints enabled. If you want, you can create more detailed temperature settings for the thermostat. See the *Programming the Thermostat* section on page 24 for more information. Perform the following steps to set the temperature:

1. From the Main screen, press either of the navigation button to access the Hold Mode screen (see FIG. 19).

FIG. 19 Hold Mode screen

2. While the Heat is selected, press **Mode/Select** to activate it.
3. Use the navigation buttons to indicate the heat setpoint.
4. Press **Mode/Select** to select **Cool**.
5. Use the navigation buttons to indicate the cool setpoint.
6. Press and hold **Mode/Select** for three seconds to accept the settings and return to the Main screen.

7. From the Main screen, press **Mode/Select** to access the Current Weather screen.
8. Press **Mode/Select** to access the 5-Day Forecast screen.
9. Press **Mode/Select** to access the Thermostat Mode screen (see FIG. 20).

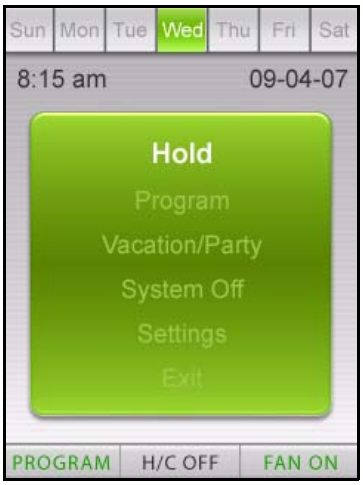

FIG. 20 Thermostat Mode screen

10. Use the navigation buttons to select **Program**, and press **Mode/Select** to access the Program Mode Setting screen (see FIG. 21).

FIG. 21 Program Mode Setting screen

11. Use the navigation buttons to select **Enable**. and press **Mode/Select** to indicate you want to enable Hold Mode settings. If you enable Hold Mode settings, the settings you establish on the Hold Mode screen override your Program settings.
12. Use the navigation buttons to select **Exit**, and press **Mode/Select**.

Programming the Thermostat

When programming the thermostat, you can set the heating, cooling, humidify, and dehumidify setpoints for various times of the day for each day of the week. There are four periods of the day for which you can create temperature and humidity setpoints. The four periods are Wake, Leave, Return, and Sleep. You can change the start time for each period to adjust the settings for your personal schedule. For example, during warm months, you can set the cool temperature to a higher setting when you are away from home to save on energy costs. Perform the following steps to program the thermostat:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Program**, and press **Mode/Select** to access the Program Mode Setting screen (see FIG. 21).
5. Use the navigation buttons to select a period of the day for which you want to program temperature settings.
6. Press **Mode/Select** after you select the appropriate period of the day.
7. Use the navigation buttons to select the heat setpoint you want for that time of day, and press **Mode/Select**.
8. Use the navigation buttons to select the cool setpoint you want for that time of day, and press **Mode/Select**.
9. Use the navigation buttons to select the hour in which you want these settings to take effect, and press **Mode/Select**.
10. Use the navigation buttons to select the minutes in which you want these settings to take effect, and press **Mode/Select**.
11. Use the navigation buttons to select the time of day (AM/PM) which you want these settings to take effect, and press **Mode/Select**.
12. Repeat steps 5 through 11 for each appropriate section of the day.
13. Use the navigation buttons to select **Dehumidify**, and press **Mode/Select**.
14. Use the navigation buttons to indicate the new dehumidify settings, and press **Mode/Select**.
15. Use the navigation buttons to select **Humidify**, and press **Mode/Select**.
16. Use the navigation buttons to indicate the new humidify settings, and press **Mode/Select**.
17. Press **Mode/Select** to indicate whether you want to enable or disable Hold Mode settings. If you enable Hold Mode settings, the settings you establish on the Hold Mode screen override your Program settings.
18. Use the navigation buttons to select **Exit**, and press **Mode/Select**.

Copying Programmed Settings

To make it easier to program the thermostat, you can create settings for one day and copy the settings to every following day for the entire week. Perform the following steps to copy programmed settings:

1. Create settings for one or more periods of the day according to the instructions in the *Programming the Thermostat* section on page 24.
2. Use the navigation buttons to select **Next Day**, and press **Mode/Select**. The settings for the next day of the week appear.
3. Use the navigation buttons to select **Copy Prev**, and press **Mode/Select**. The thermostat copies the settings from the previous day onto the current day.

Creating Vacation/Party Settings

Vacation/Party settings enable you to create heating, cooling, humidify, and dehumidify setpoints for a set period of time, in days or hours. When the time limit expires, the thermostat uses the previous program or hold mode settings you set. Perform the following steps to create vacation/party settings:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Vacation/Party**, and press **Mode/Select** to access the Vacation/Party screen (see FIG. 22).

FIG. 22 Vacation/Party Mode screen

5. Press **Mode/Select** while Days is selected. Use the navigation buttons to indicate the number of days you want the settings to last, then press **Mode/Select**.
6. Press **Mode/Select** while Hours is selected. Use the navigation buttons to indicate the number of hours you want the settings to last, then press **Mode/Select**.
7. With Heat highlighted, press **Mode/Select**.
8. Use the navigation buttons to indicate the heat setpoint you want for that time of day, and press **Mode/Select**.
9. With Cool highlighted, press **Mode/Select**.
10. Use the navigation buttons to indicate the cool setpoint you want for that time of day, and press **Mode/Select**.
11. With Humidify highlighted, press **Mode/Select**.
12. Use the navigation buttons to indicate the new humidify settings, and press **Mode/Select**.
13. With Dehumidify highlighted, press **Mode/Select**.
14. Use the navigation buttons to indicate the new dehumidify settings, and press **Mode/Select**.
15. Press **Mode/Select** to indicate whether you want to enable or disable the Vacation/Party settings.
16. Use the navigation buttons to select **Exit**, and press **Mode/Select**.

Turning Off the HVAC System

Perform the following steps to turn off the HVAC system:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen (see FIG. 20).
4. Use the navigation buttons to select **System On/Off**, and press **Mode/Select** to toggle between turning the HVAC system on or off.

Advanced Settings

Changing the Fan Settings

The thermostat has two separate settings to configure the fan on your HVAC system. You can use the Fan State option to set the fan state to On, which runs the fan continuously, or Auto, which runs the fan when the heating and cooling settings determine it should do so. You can also set the Fan Speed option to Low, Medium, or High. Perform the following steps to change the fan settings:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen (see FIG. 20).
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to toggle the Fan State between **On** and **Auto**.
6. Press **Mode/Select** to select Fan Speed.
7. Press **Mode/Select** to toggle the Fan Speed between High, Medium, or Low.

Changing the Filter Settings

If you set the thermostat to tell you when your filter needs to be changed, you must also indicate how often you want the thermostat to remind you. You can choose from 30, 60, 90, and 120 days. When the Filter Change Reminder feature is enabled (see the *Disabling the Filter Change Reminder* section on page 31 for more information), the thermostat monitors the operation time of the HVAC system and fan. When the operation time reaches the selected number of days, a filter change reminder icon displays to alert you to change the filter. Perform the following steps to change the filter settings:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen (see FIG. 23).

FIG. 23 Settings screen

5. Use the navigation buttons to select **Filter**.
6. Press **Mode/Select** to toggle the Filter setting between 30, 60, 90, or 120 days.

Switching Your HVAC System Between Heating and Cooling

This option enables you to toggle the HVAC system setting between heating and cooling. Perform the following steps to switch your HVAC system between heating and cooling:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen (see FIG. 23).
5. Use the navigation buttons to select **Heat** or **Cool**.
6. Press **Mode/Select** to toggle the Heat or Cool setting between Heat, A/C, Auto, or Off.

Turning on Emergency Heat

This option enables you to toggle the emergency heat setting between On and Off. This option is only available if your thermostat is configured to operate as a heat pump. Perform the following steps to turn on emergency heat:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen (see FIG. 23).
5. Use the navigation buttons to select **Emergency Heat**.
6. Press **Mode/Select** to toggle the Emergency Heat setting between On and Off.

NOTE

The Emergency Heat option is only available if your thermostat is configured to operate as a heat pump.

Changing User Preferences

Accessing Advanced Setup Options

Perform the following steps to access advanced setup options:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen (see FIG. 24).

FIG. 24 Security Code screen

Entering the Security Code

You must enter a security code to access the advanced setup options on the thermostat. The default security code is ***1988***. See the *Changing the Security Code* section on page 28 for information on changing the security code. Perform the following steps to enter the security code.

1. Use the navigation buttons to scroll through the numbers until you reach the first digit in the code, and press **Mode/Select** to move to the next digit in the code.
2. Repeat the previous step until you have entered the full four-digit code.
3. Press **Mode/Select** while Enter is selected. If the code is correct, the User Preferences screen appears (see FIG. 26).

Changing the Security Code

You can change the security code for the thermostat to a new four-digit code. If you change the security code, store the new code in a safe location where you can access it if you ever forget it. If you forget your new code and need to have it reset to a known value, you can reset the code through the NI Master. Perform the following steps to change the security code.

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.

7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Change Security Code**, and press **Mode/Select** to access the Change Security Code screen (see FIG. 25).

FIG. 25 Change Security Code screen

11. Use the navigation buttons to scroll through the numbers until you reach the first digit in the code, and press **Mode/Select** to move to the next digit in the code.
12. Repeat the previous step until you have entered the full four-digit code.
13. Press **Mode/Select** while Enter is selected to accept the code change. If you want to cancel, while Enter is selected use the navigation buttons to select **Cancel**, and press **Mode/Select**.

Changing the Temperature Scale

When you change the temperature scale, you indicate whether you want to use the Fahrenheit (F) or Celsius (C) scale. Perform the following steps to change the temperature scale:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.

7. Enter the security code, and select **Enter** to access the User Preferences screen (see FIG. 26). See the *Entering the Security Code* section on page 28 for more information.

FIG. 26 User Preferences screen (1 of 3)

8. Press **Mode/Select** to toggle the temperature scale setting between Fahrenheit (F) and Celsius (C).

Changing the Date and Time Format

The thermostat allows you to choose one of three formats for displaying the date. You can choose between MMDDYY, DDMMYY, and YYDDMM. You can also choose a 12- or 24-hour time format. Perform the following steps to change the date and time format:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen (see FIG. 26). See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to select **Date Format**.
9. Press **Mode/Select** to toggle the date format setting between MMDDYY, DDMMYY, and YYDDMM.
10. Use the navigation buttons to select **Time Format**.
11. Press **Mode/Select** to toggle the time format setting between 12- and 24-hour.

Changing the Backlight Settings

Backlight settings allow adjustments to the thermostat display's backlight including the timeout before the backlight turns off and the brightness of the backlight. You can set the backlight timeout from any value between 10 seconds to 5 minutes in 10-second increments. The default backlight timeout is 30 seconds. You can set the backlight active brightness to High, Medium, and Low with a default value of Medium. You can set the backlight inactive brightness to Dim or Off with a default value of Dim. Perform the following steps to change the backlight settings:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.

4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen (see FIG. 26). See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **Backlight Timeout**, and press **Mode/Select** to activate it.
9. Press **Mode/Select** to indicate a new backlight timeout setting. You can set any period of time between 10 seconds and 5 minutes, in 10-second increments.
10. Use the navigation buttons to highlight **Backlight Active Brightness**, and press **Mode/Select** to activate it.
11. Press **Mode/Select** to toggle the Backlight Active Brightness setting between Low, Medium, and High.
12. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen (see FIG. 27).

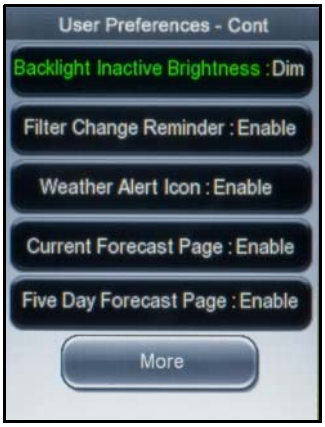

FIG. 27 User Preferences screen (2 of 3)

13. With Backlight Inactive Brightness highlighted, press **Mode/Select** to activate it.
14. Press **Mode/Select** to toggle the Backlight Inactive Brightness setting between Dim and Off.

Disabling the Filter Change Reminder

The thermostat filter change reminder monitors the operation time of the HVAC system and fan. When the operation time reaches the number of days you set on the Settings screen, the filter change reminder icon displays alerting you to change the filter. (See the *Changing the Filter Settings* section on page 26 for more information.) This option is enabled by default. Perform the following steps to disable the filter change reminder:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.

8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen (see FIG. 27).
9. Use the navigation buttons to highlight **Filter Change Reminder**.
10. Press **Mode/Select** to toggle the Filter Change Reminder setting between Enable and Disable.

Disabling the Weather Alert Icon

A weather alert message is sent by the NI Master to report active weather alerts and when a weather alert in cancelled. If you do not want these weather alerts to appear, or if you are not using the i!-Weather application, you can disable this feature.

Perform the following steps to disable the weather alert icon:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen (see FIG. 27).
9. Use the navigation buttons to highlight **Weather Alert Icon**.
10. Press **Mode/Select** to toggle the Weather Alert Icon setting between Enable and Disable.

Disabling the Forecast Screens

If you are not using the i!-Weather application to report the weather forecast to the thermostat, you might want to disable the forecast screens so they do not appear when you navigate through the thermostat's screens. Perform the following steps to disable the forecast screens:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen (see FIG. 27).
9. Use the navigation buttons to highlight **Current Weather Page**.
10. Press **Mode/Select** to toggle the Current Weather Page setting between Enable and Disable.
11. Use the navigation buttons to highlight **5-Day Forecast Page**.
12. Press **Mode/Select** to toggle the 5-Day Forecast Page setting between Enable and Disable.

Disabling the Screen Saver

The thermostat has a screen saver option which you can turn to avoid screen burn. The screen saver activates after 20 seconds without any user input, and displays the current room temperature moving around the screen on a black background. The screen saver is automatically enabled when the thermostat is installed. Perform these steps to disable the screen saver:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen (see FIG. 28).

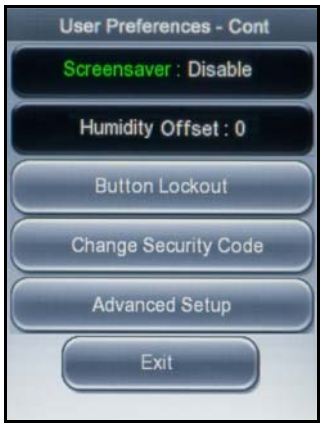

FIG. 28 User Preferences screen (3 of 3)

Locking the Buttons

You can lock the buttons on the thermostat so no one can change the settings. Perform the following steps to lock the buttons on the thermostat:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.

9. Use the navigation buttons to highlight **Button Lockout**.
10. Press **Mode/Select** to access the Button Lockout screen (see FIG. 29).

FIG. 29 Button Lockout screen (1 of 2)

11. With Button Lockout highlighted, press **Mode/Select** to toggle the button lockout setting between Lock and Unlock.

Locking the Temperature Settings

You can lock the temperature settings on the thermostat so no one can change them. When you lock the temperature settings, you must set an amount of time for the settings to be locked. You can set the time limit to any amount of time between 0 and 60 minutes. After the time limit expires, the temperature settings automatically unlock and can be changed again. Perform the following steps to lock the temperature settings:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the **Security Code** screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. Use the navigation buttons to highlight **Button Lockout**.
10. Press **Mode/Select** to access the Button Lockout screen (see FIG. 29).
11. Use the navigation buttons to select **Temperature Lock**, and press **Mode/Select** to toggle the temperature lockout setting between Yes and No.
12. Use the navigation buttons to select **Temperature Lock Time Limit**, and press **Mode/Select** activate it.
13. Press **Mode/Select** multiple times until you reach the time limit value you want.
14. Use the navigation buttons to select **Temperature Lock Range Limit**, and press **Mode/Select** activate it.
15. Press **Mode/Select** multiple times until you reach the range limit value you want.

Locking the Fan Settings

You can lock the fan settings on the thermostat so no one can change them. When you lock the fan settings, you must set an amount of time for the settings to be locked. You can set the time limit to any amount of time between 0 and 60 minutes. After the time limit expires, the fan settings automatically unlock and can be changed again. Perform the following steps to lock the fan settings:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. Use the navigation buttons to highlight **Button Lockout**.
10. Press **Mode/Select** to access the Button Lockout screen.
11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Button Lockout screen (see FIG. 30).

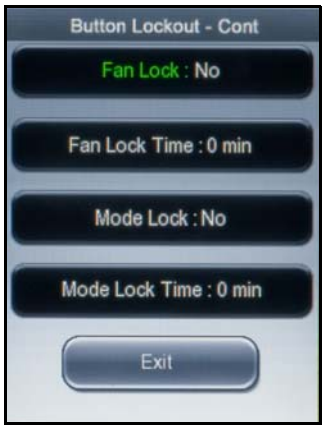

FIG. 30 Button Lockout screen (2 of 2)

12. Use the navigation buttons to select **Fan Lock**, and press **Mode/Select** to toggle the fan lockout setting between Yes and No.
13. Use the navigation buttons to select **Fan Lock Time**, and press **Mode/Select** activate it.
14. Press **Mode/Select** multiple times until you reach the fan lock time value you want.

Locking the Mode Settings

You can lock the mode settings on the thermostat so no one can change them. When you lock the mode settings, you must set an amount of time for the settings to be locked. You can set the time limit to any amount of time between 0 and 60 minutes. After the time limit expires, the mode settings automatically unlock and can be changed again. Perform the following steps to lock the mode settings:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.

3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. Use the navigation buttons to highlight **Button Lockout**.
10. Press **Mode/Select** to access the Button Lockout screen.
11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Button Lockout screen (see FIG. 30).
12. Use the navigation buttons to select **Mode Lock**, and press **Mode/Select** to toggle the mode lockout setting between Yes and No.
13. Use the navigation buttons to select **Mode Lock Time**, and press **Mode/Select** activate it.
14. Press **Mode/Select** multiple times until you reach the mode lock time value you want.

Changing the Type of HVAC System

The thermostat automatically defaults to One Stage Furnace for the HVAC System setting when you install it. You can change the type of HVAC system you are using, which activates certain features depending on which type of system you have. This option should be set when the thermostat is installed for the first time, and should not need to be changed after that. Perform the following steps to change the type of HVAC system you are using:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen (see FIG. 31).

FIG. 31 Advanced Setup screen (1 of 2)

11. With HVAC System highlighted, press **Mode/Select** to indicate the type of HVAC system you are using.

Changing the Type of Fossil Fuel

The thermostat gives you the option to indicate the type of fossil fuel your HVAC system uses. You can choose from Gas and Electric. Perform these steps to change the type of fossil fuel:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen (see FIG. 31).
11. Use the navigation buttons to select **Fossil Fuel Type**, and press **Mode/Select** to indicate the type of HVAC system you are using.

Activating the External Sensor

If you have an external sensor installed with the thermostat, you must indicate if the sensor is installed indoors or outdoors. If you activate both this sensor and the Onboard Temperature sensor, the thermostat reports an average temperature based on the temperature readings from each sensor. You can also turn off the external sensor if it is connected, but you do not want to use it. Perform the following steps to activate the external sensor:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.

4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen (see FIG. 31).
11. Use the navigation buttons to select **External Temperature Sensor**, and press **Mode/Select** to activate it.
12. Press **Mode/Select** to indicate the location of the external sensor. You can choose from Indoor or Outdoor. Selecting one of these choices activates the external sensor. You can select Off if you want to deactivate the sensor.

Activating the Internal On-board Sensor

The thermostat comes installed with an internal on-board temperature sensor, which is activated by default when the thermostat is installed. You can use this sensor to report room temperature, or you can activate both this sensor and the External Temperature sensor, at which point the thermostat reports an average temperature based on the temperature readings from each sensor. You can also turn off the internal on-board sensor if you do not want to use it. Perform the following steps to activate the internal on-board sensor:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen (see FIG. 31).
11. Use the navigation buttons to select **Internal Temperature Sensor**, and press **Mode/Select** to activate it.
12. Press **Mode/Select** to toggle whether you want the internal sensor turned on or off.

Activating the On-board Humidity Sensor

The thermostat comes installed with an internal on-board humidity sensor. You can use this sensor to report room humidity. You can also turn off the internal on-board humidity sensor if you do not want to use it. Perform the following steps to activate the on-board humidity sensor:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen (see FIG. 31).
11. Use the navigation buttons to select **Humidity Sensor**, and press **Mode/Select** to activate it.
12. Press **Mode/Select** to toggle whether you want the humidity sensor turned on or off.

Setting the Date and Time on the Thermostat

The thermostat enables you to set the date and time, which displays on the main screen. Perform the following steps to set the date and time on the thermostat:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen.
11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Advanced Setup screen (see FIG. 32).

FIG. 32 Advanced Setup screen (2 of 2)

12. With Mon highlighted, press **Mode/Select** to change the number of the current month.
13. Use the navigation buttons to highlight **Day**, and press **Mode/Select** to activate it.
14. Press **Mode/Select** to change the current day.
15. Use the navigation buttons to highlight **Yr**, and press **Mode/Select** to activate it.
16. Press **Mode/Select** to change the current year.
17. Use the navigation buttons to highlight **Hour**, and press **Mode/Select** to activate it.
18. Press **Mode/Select** to change the current hour.
19. Use the navigation buttons to highlight **Min**, and press **Mode/Select** to activate it.
20. Press **Mode/Select** to change the current minute.

Switching AxLink Devices

The AxLink Communications screen enables you to set the address of the AxLink device with which you want the thermostat to communicate. The AxLink address distinguishes a device on the AxLink bus from all other devices. Valid AxLink addresses are 1-255. Address 0 belongs to the Master. The default setting for the ViewStat Color Communicating Thermostat is 1.

Perform the following steps to switch AxLink devices:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select Enter to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen.

11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Advanced Setup screen.
12. Use the navigation buttons to highlight **AxLink Setup**, and press **Mode/Select** to access the AxLink Communications screen (see FIG. 33).

FIG. 33 AxLink Communications screen

13. Use the navigation buttons to scroll through the numbers until you reach the first digit in the code, and press **Mode/Select** to move to the next digit in the code.
14. Repeat the previous step until you have entered the full three-digit code.
15. Press **Mode/Select** while Enter is selected.

CAUTION

Changing the address of an AxLink device can result in some features on the thermostat to stop working.

Thermostat Setup

Setting First and Second Stage Differentials

Differentials set the tightness of the temperature control to eliminate large temperature swings and prevent the HVAC system from operating too often. Normally the second stage of heat is for auxiliary or emergency heat. Energy Star recommends that a programmable thermostat be capable of maintaining room temperature swings within ± 2°F of the set point temperature.

Perform these steps to set the first and second stage differentials:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.

9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen.
11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Advanced Setup screen.
12. Use the navigation buttons to highlight **Thermostat Setup**, and press **Mode/Select** to access the Thermostat Setup screen (see FIG. 34).

FIG. 34 Thermostat Setup screen (1 of 2)

13. With First Stage Diff highlighted, press **Mode/Select** to activate it.
14. Press **Mode/Select** to indicate the first stage differential.
15. Use the navigation buttons to highlight **Second Stage Diff**, and press **Mode/Select**.
16. Press **Mode/Select** to indicate the second stage differential.

Setting the Deadband Temperature Difference

The Deadband is the temperature difference between the heating and cooling setpoints. The Deadband configuration enforces a minimum separation between the two setpoints which determine when auto changeover between HVAC heating and cooling mode will occur.

Perform these steps to set the deadband temperature difference:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.

10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen.
11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Advanced Setup screen.
12. Use the navigation buttons to highlight **Thermostat Setup**, and press **Mode/Select** to access the Thermostat Setup screen (see FIG. 34).
13. Use the navigation buttons to highlight **Deadband**, and press **Mode/Select**.
14. Press **Mode/Select** to indicate the deadband temperature difference.

Setting the Temperature Offset

The temperature offset enables you to customize the temperature shown on the display. You can set the temperature offset in 1° increments.

Perform these steps to set the temperature offset:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.
5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen.
11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Advanced Setup screen.
12. Use the navigation buttons to highlight **Thermostat Setup**, and press **Mode/Select** to access the Thermostat Setup screen (see FIG. 34).
13. Use the navigation buttons to highlight **Temperature Offset**, and press **Mode/Select**.
14. Press **Mode/Select** to indicate the temperature offset.

Setting the Balance Point

Balance Point configuration enables you to adjust a balance point to limit auxiliary heat pump operation according to the current outdoor temperature. The compressor terminals will not be energized when the outdoor temperature is below the balance point. This does not affect Emergency Heat operation. This option is only valid if the thermostat has been configured to operate as a heat pump.

Perform these steps to set the balance point:

1. From the Main screen, press **Mode/Select** to access the Current Weather screen.
2. Press **Mode/Select** to access the 5-Day Forecast screen.
3. Press **Mode/Select** to access the Thermostat Mode screen.
4. Use the navigation buttons to select **Settings**, and press **Mode/Select** to access the Settings screen.

5. Use the navigation buttons to select **Advanced Setup**.
6. Press **Mode/Select** to access the Security Code screen.
7. Enter the security code, and select **Enter** to access the User Preferences screen. See the *Entering the Security Code* section on page 28 for more information.
8. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second User Preferences screen.
9. On the second User Preferences screen, use the navigation buttons to highlight **More**, and press **Mode/Select** to access the third User Preferences screen.
10. Use the navigation buttons to highlight **Advanced Setup**, and press **Mode/Select** to access the Advanced Setup screen.
11. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Advanced Setup screen.
12. Use the navigation buttons to highlight **Thermostat Setup**, and press **Mode/Select** to access the Thermostat Setup screen.
13. Use the navigation buttons to highlight **More**, and press **Mode/Select** to access the second Thermostat Setup screen (see FIG. 35).

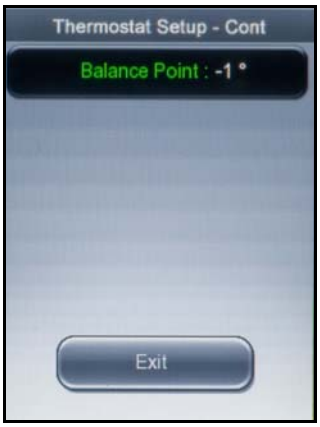

FIG. 35 Thermostat Setup screen (2 of 2)

14. With Balance Point highlighted, press **Mode/Select** to activate it.
15. Press **Mode/Select** to indicate the balance point.
16. Use the navigation buttons to highlight **Exit**, and press **Mode/Select** to return to the second Advanced Setup screen.

NOTE

The Balance Point option is only available if your thermostat is configured to operate as a heat pump.

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3000 RESEARCH DRIVE, RICHARDSON, TX 75082 USA • 800.222.0193 • 469.624.8000 • 469-624-7153 fax • 800.932.6993 technical support • www.amx.com

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